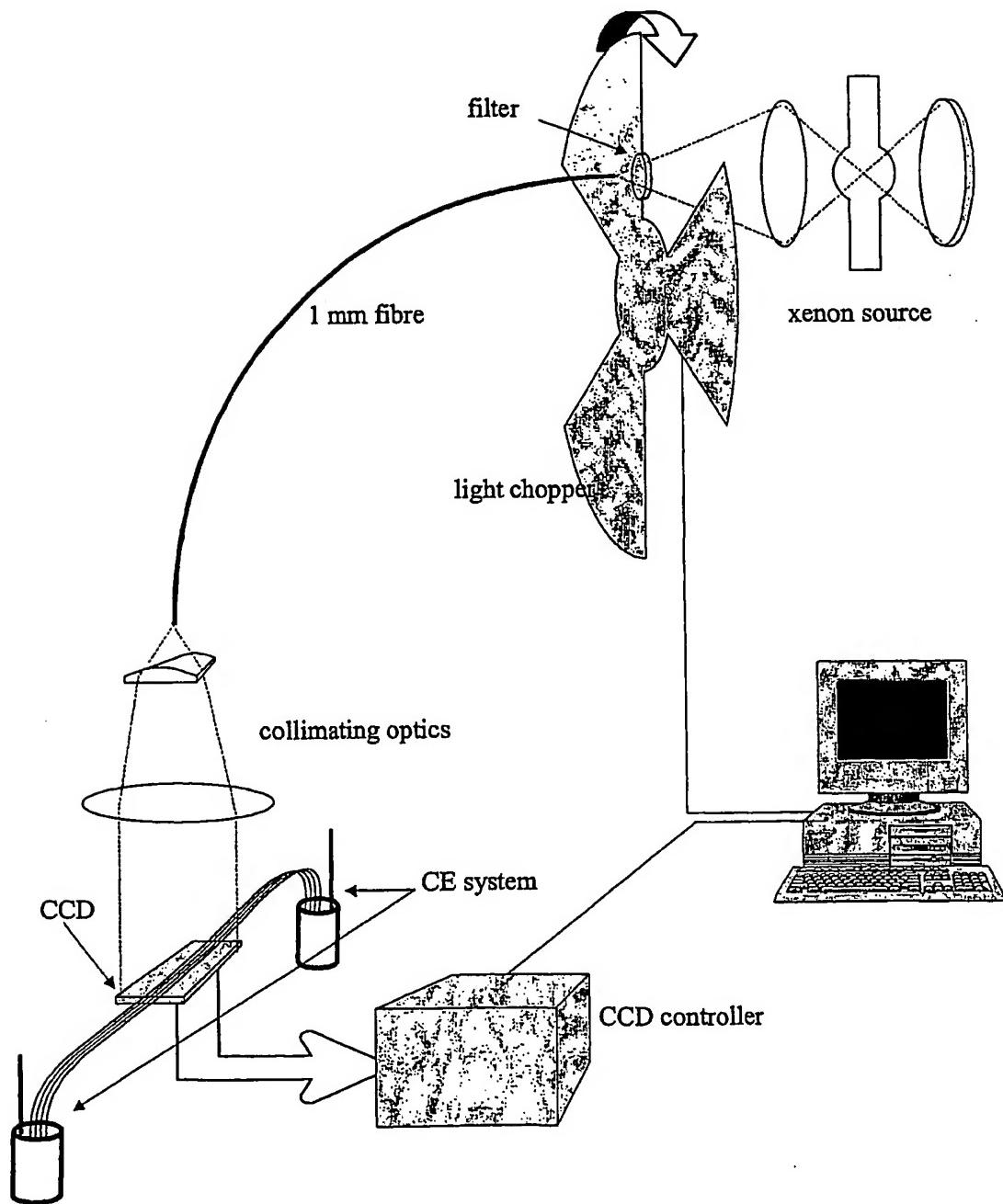




REPLACEMENT SHEET

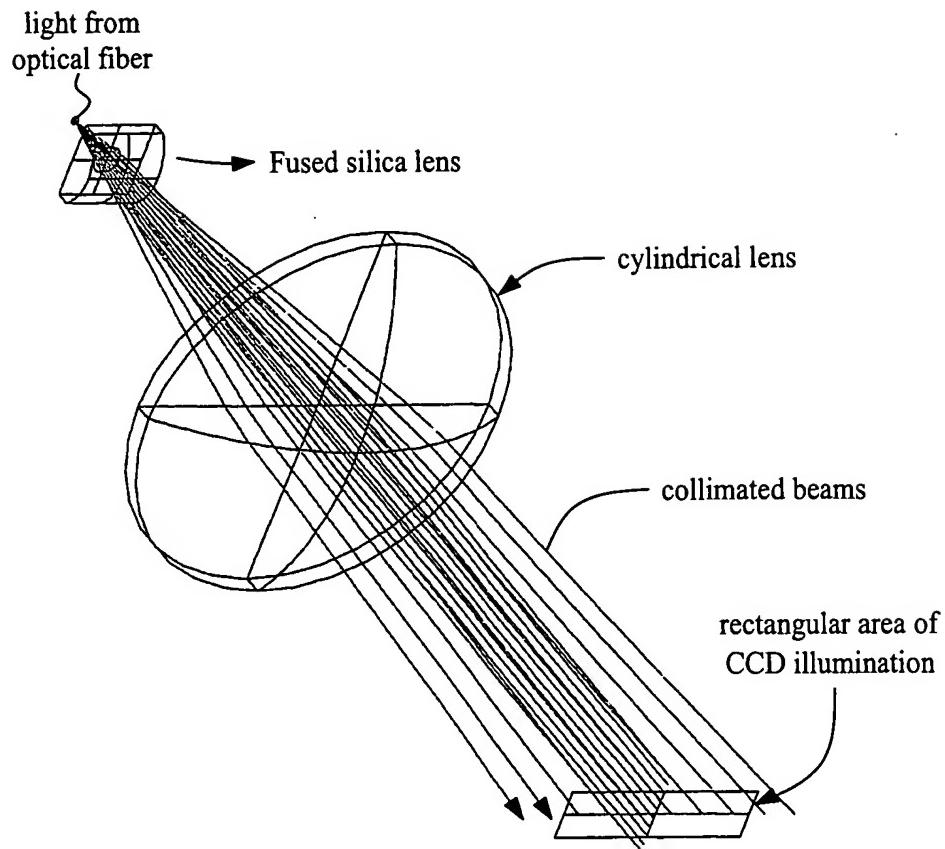


Schematic diagram of experimental apparatus for parallel capillary absorbance detection

FIG. 1

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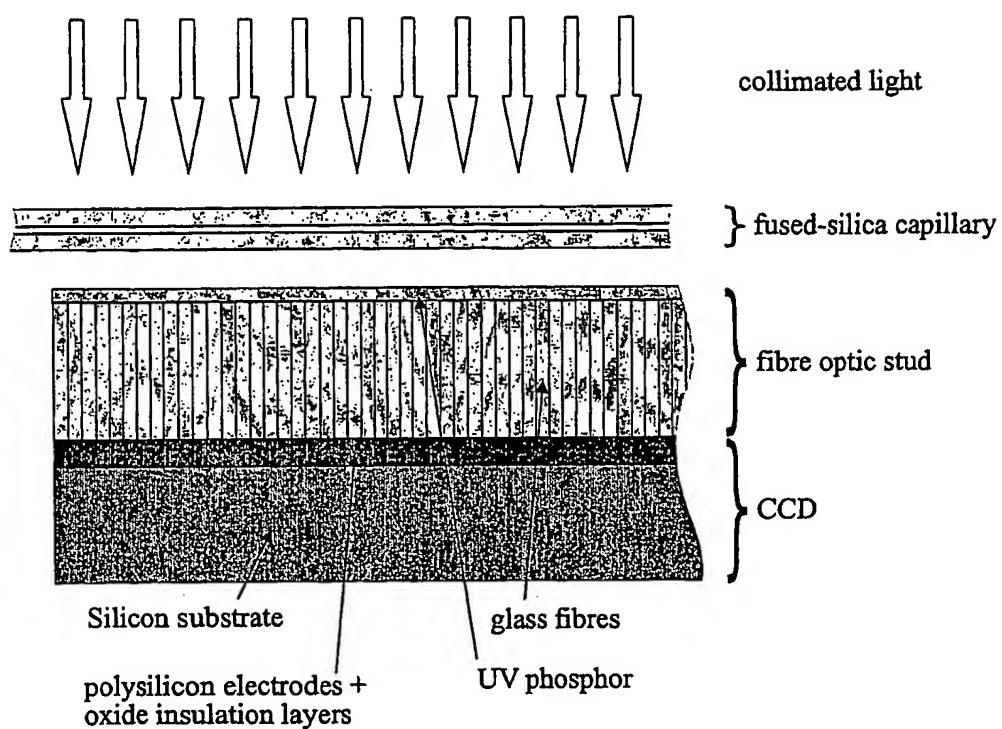
REPLACEMENT SHEET



Collimated illumination of rectangular CCD area, (26.6 x 6.7 mm) using light output from a 1 mm diameter fused-silica optical fibre (N.A. = 0.22) using a cylindrical and spherical fused-silica lens elements.

FIG. 2

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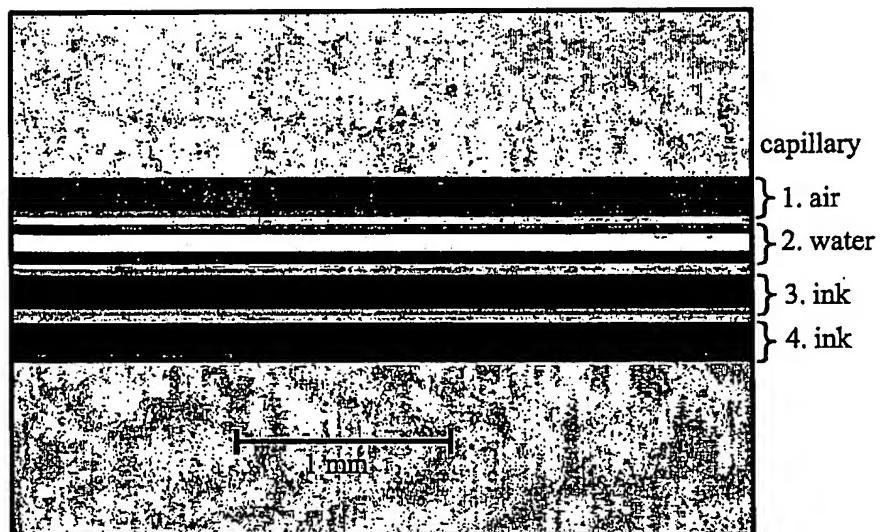


Detail of CCD with fibre optic stud and imaging of capillaries

FIG. 3

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REPLACEMENT SHEET

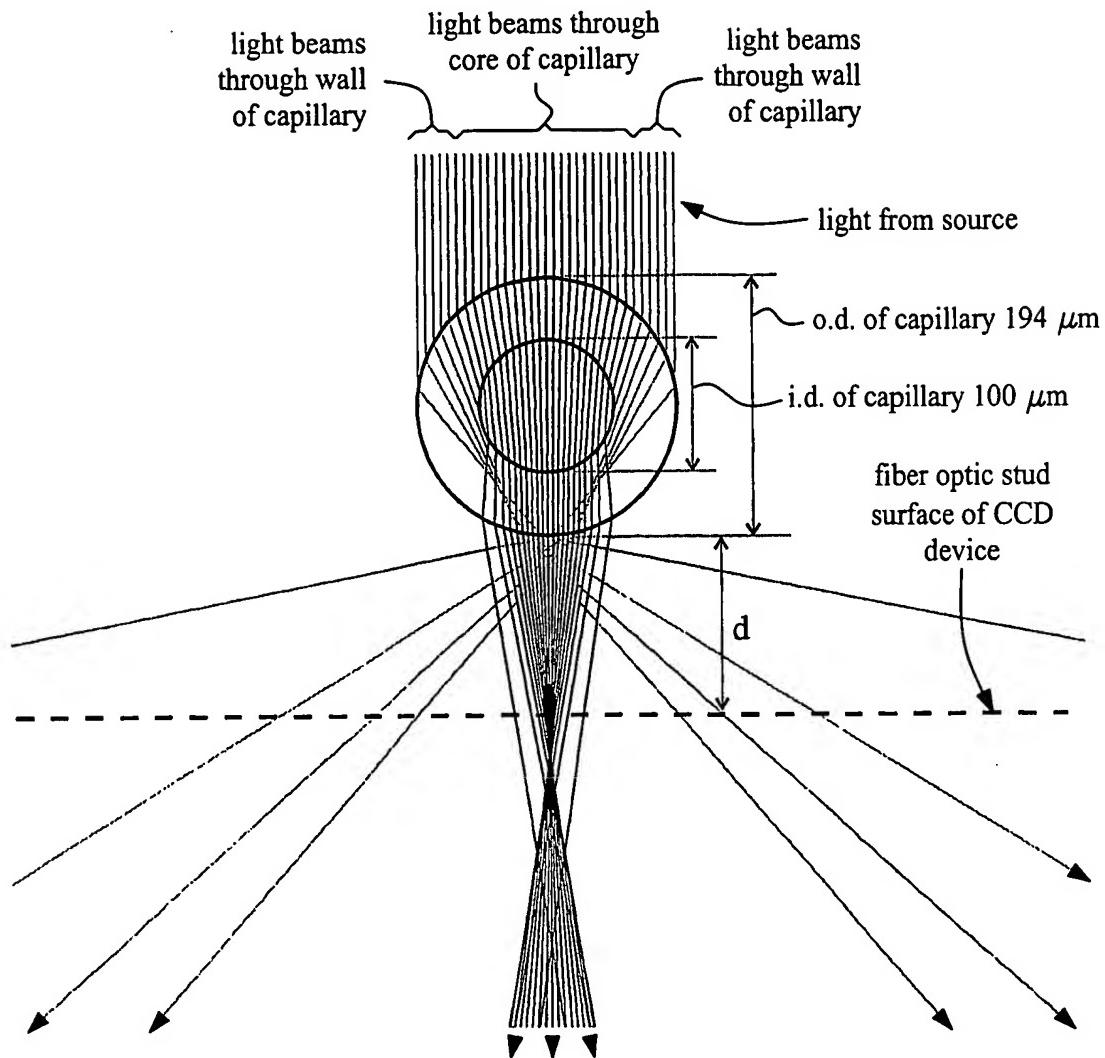


Part of one CCD snapshot showing ~3 mm of 4 capillaries (100 m i.d., 194 m o.d.); the total area imaged is 6.7 x 26.6 mm. The contents of the capillaries are, 1. air, 2. water, 3 & 4 ink solution.

FIG. 4

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REPLACEMENT SHEET

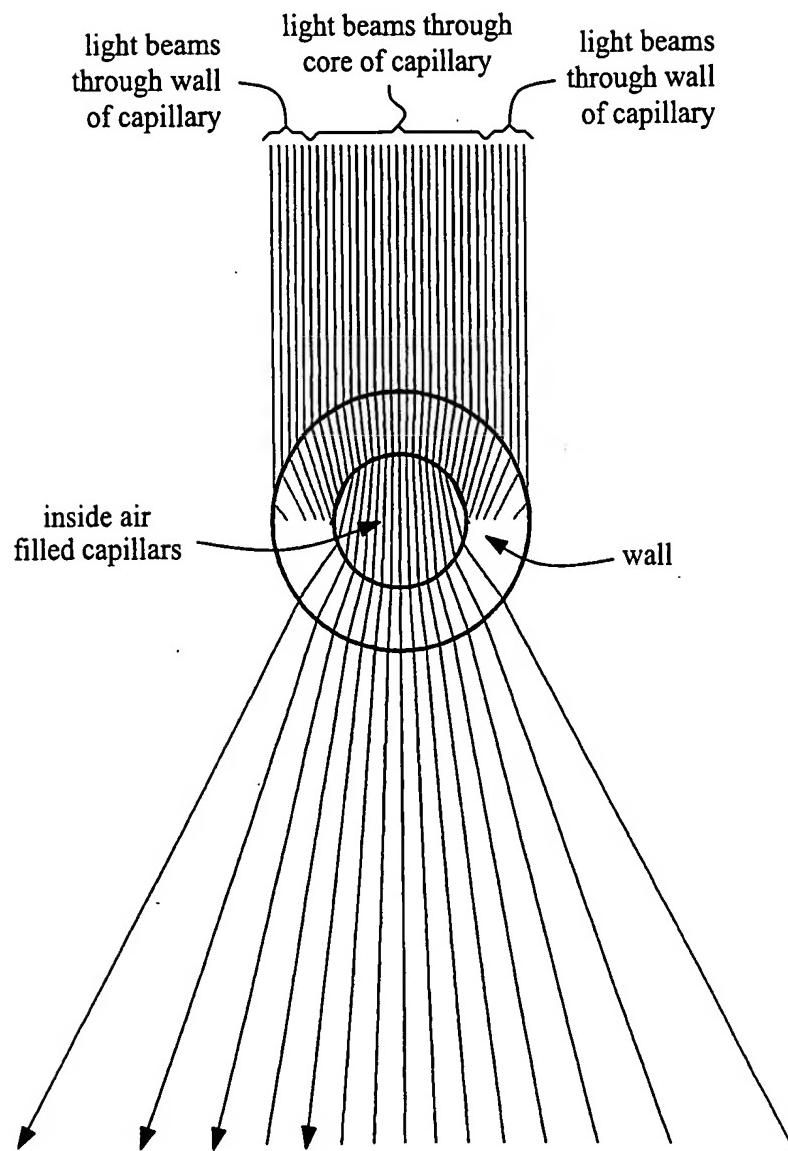


Water-filled capillary, 100 μm i.d., 194 μm o.d.

FIG. 5

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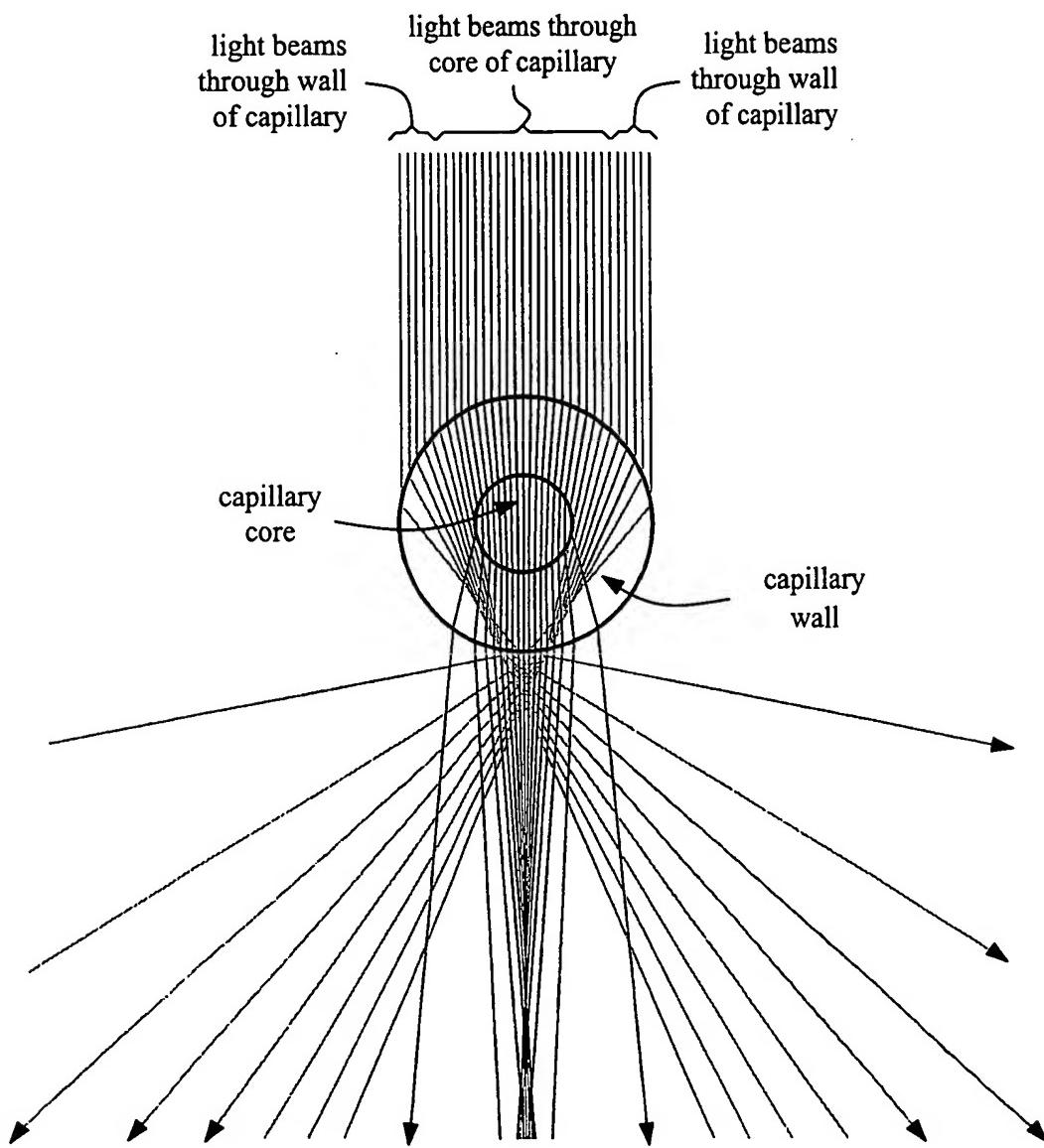
REPLACEMENT SHEET



Water-filled capillary, 100 μm i.d., 194 μm o.d.

FIG. 6

REPLACEMENT SHEET



Water-filled capillary, 75 μm i.d., 194 μm o.d.

FIG. 7

REPLACEMENT SHEET

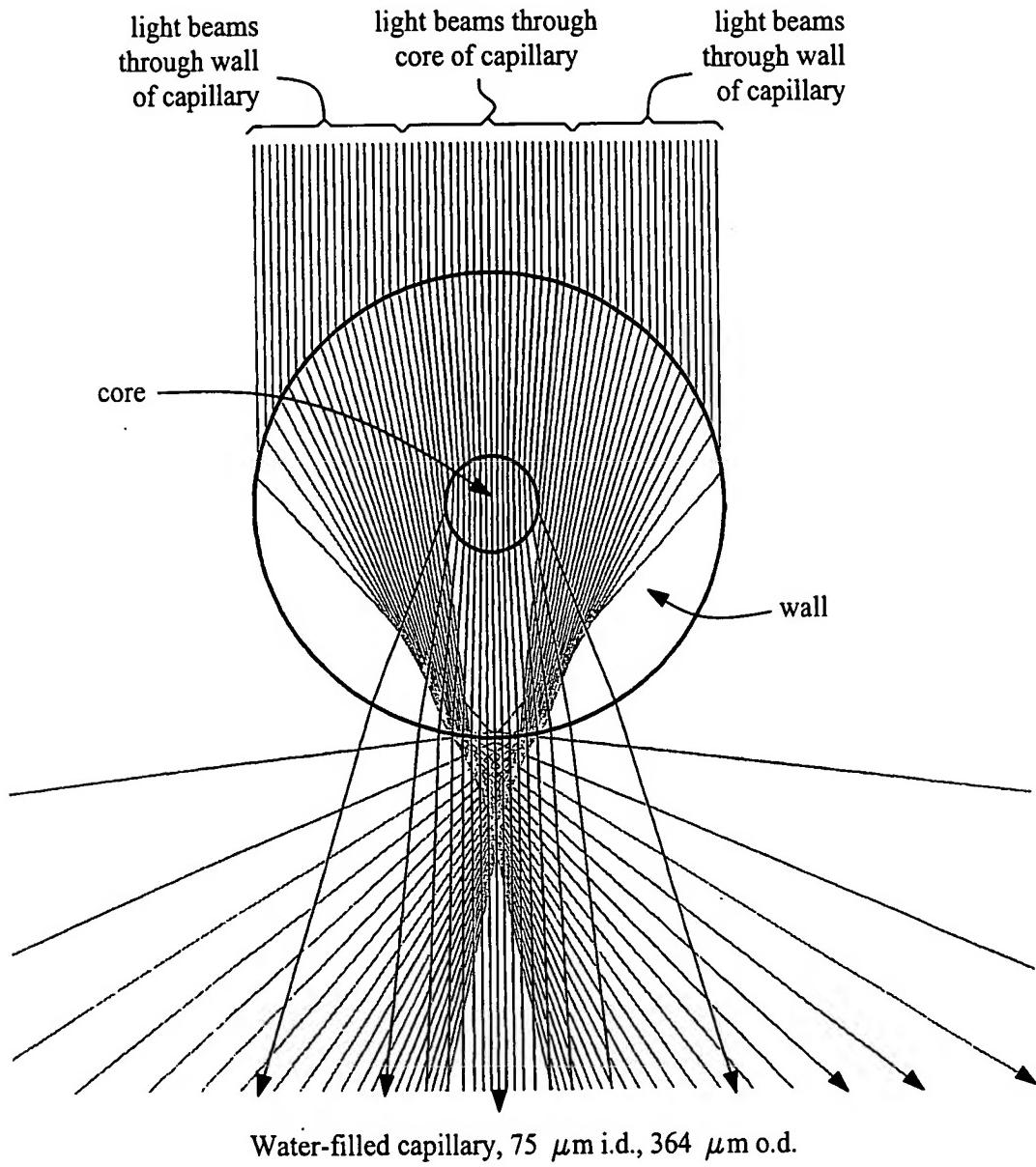
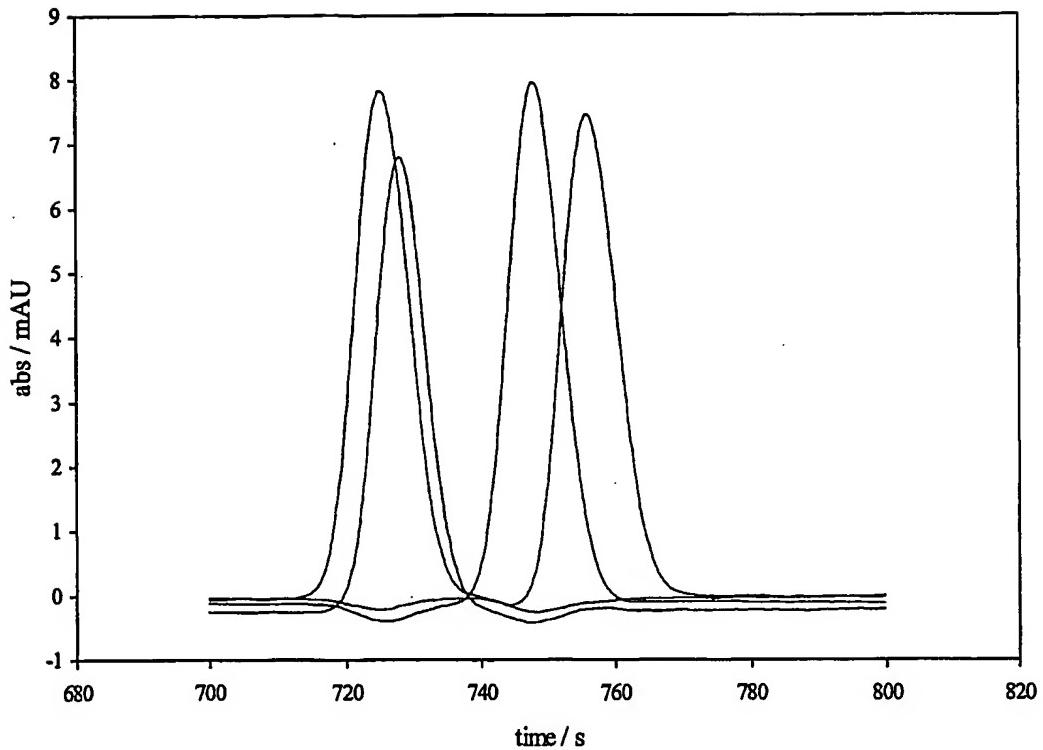


FIG. 8

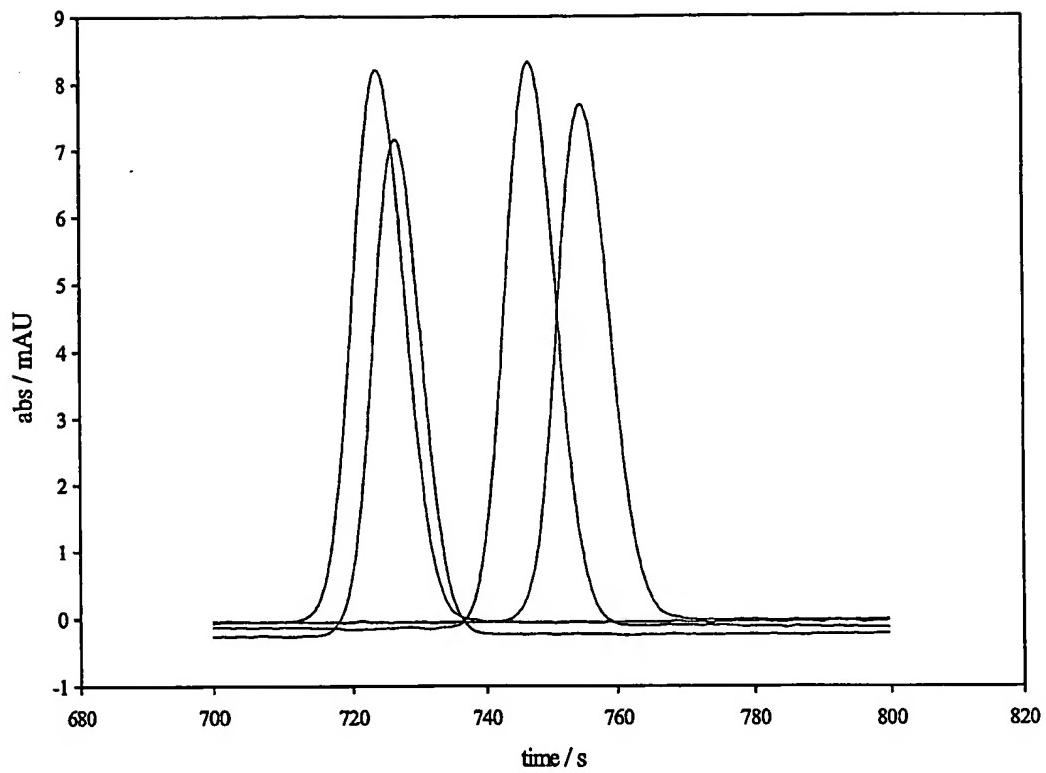
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Electropherograms of ~16 nL 100 μ M p-nitrophenol injected into each of four parallel 100 μ m i.d. capillaries. Capillary length: 500 mm total, 300 mm to the detector. Separation voltage: 5000 V. Buffer: sodium phosphate pH 7.5 (15 mM sodium).

FIG. 9

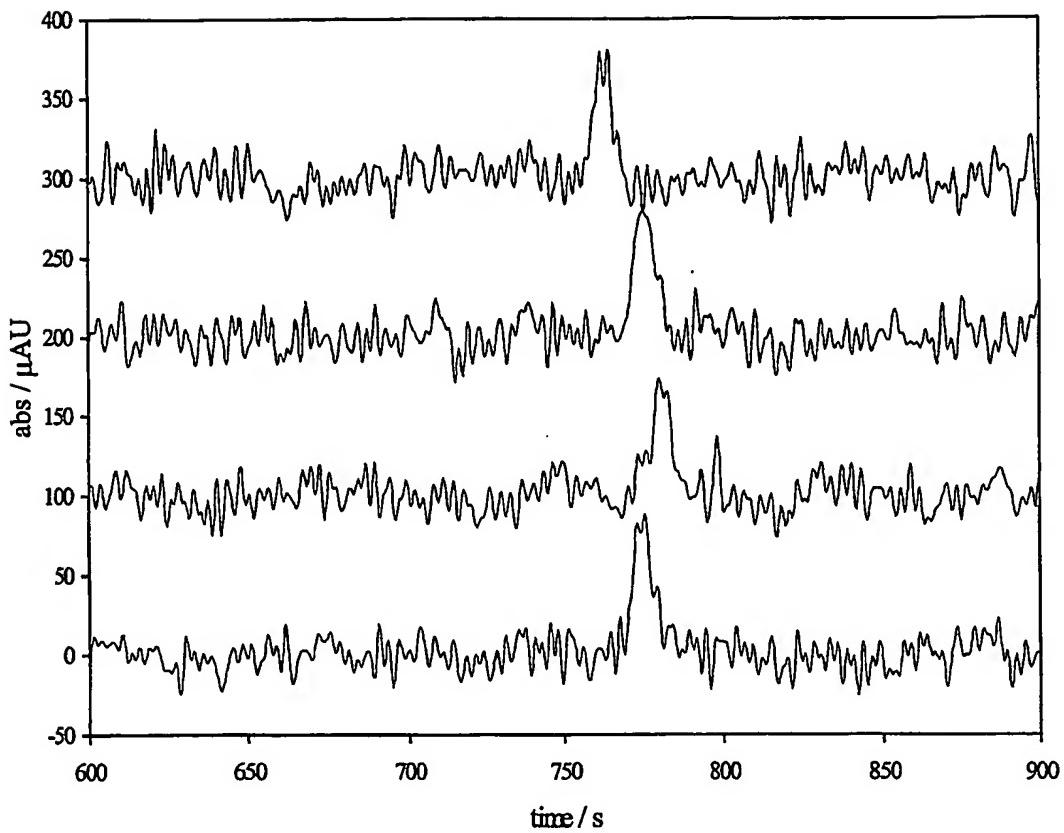
REPLACEMENT SHEET



Electropherograms of 100 μM p-nitrophenol after correction for cross-talk between capillaries.

FIG. 10

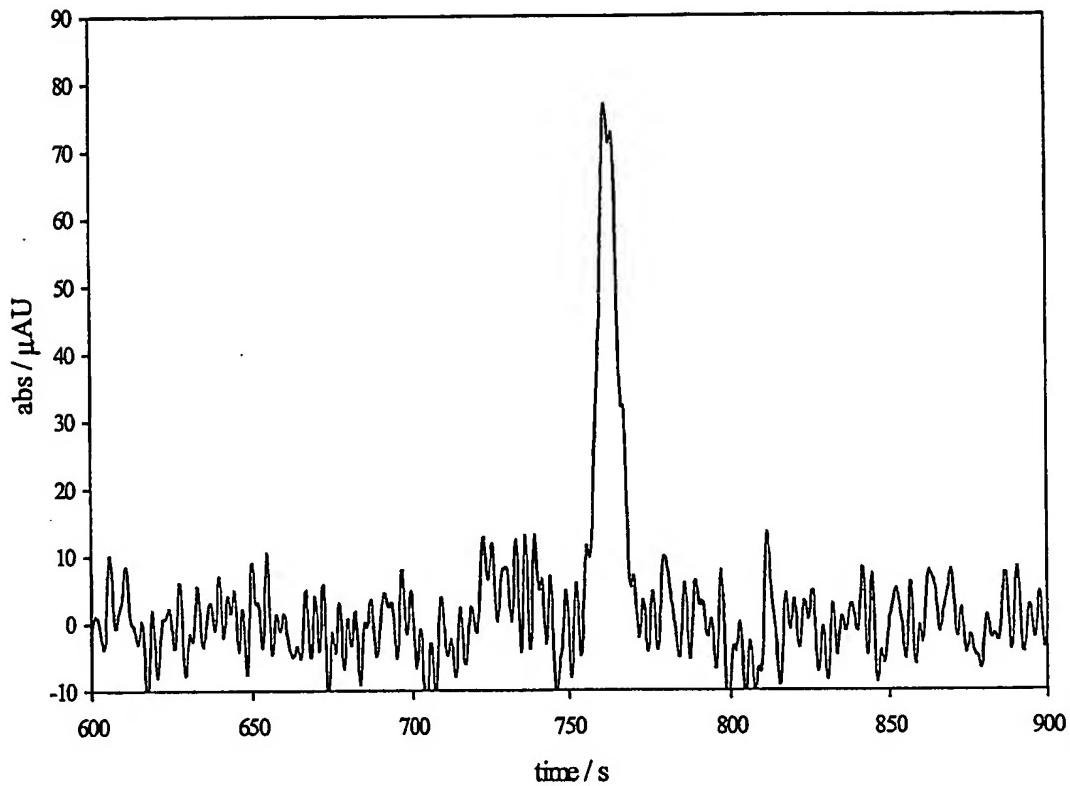
REPLACEMENT SHEET



Electropherograms of ~16 nL 1 μ M p-nitrophenol injected into each capillary.

FIG. 11

REPLACEMENT SHEET



Electropherograms generated by taking the average of the four traces shown in figure 11.

FIG. 12

REPLACEMENT SHEET

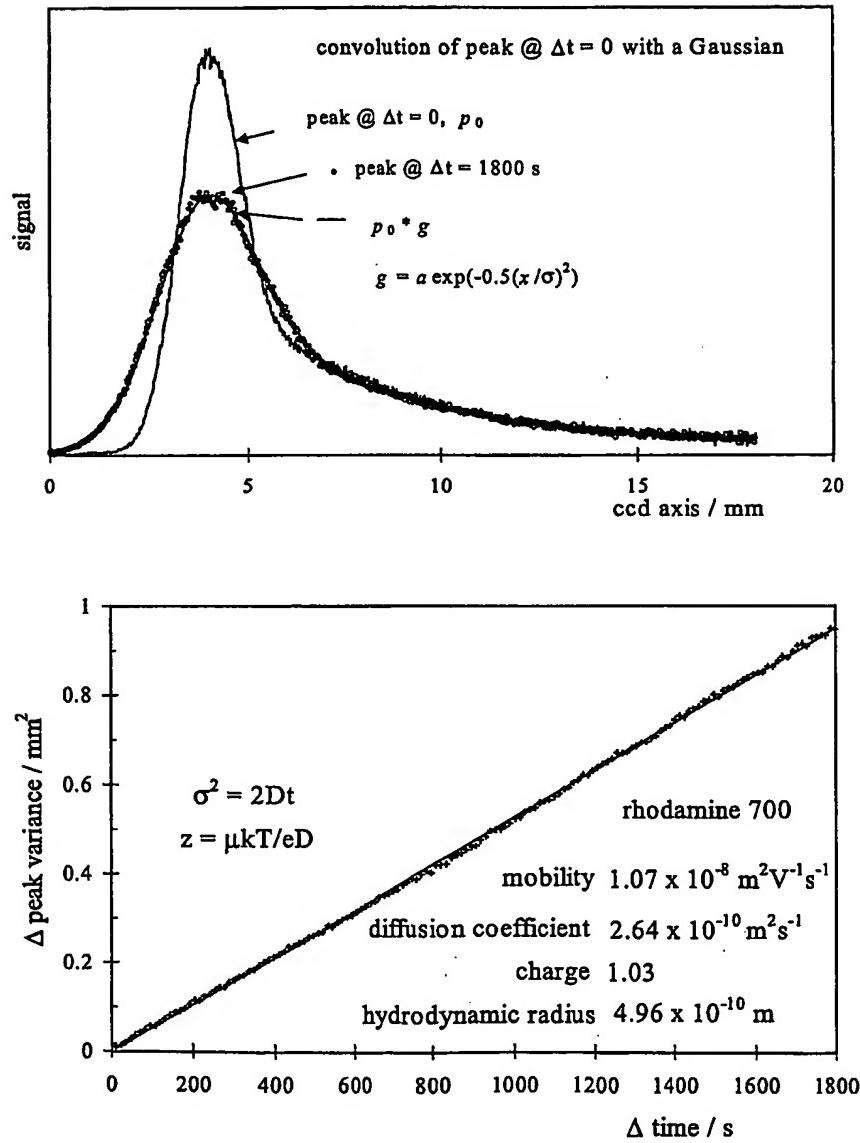


FIG. 13

REPLACEMENT SHEET

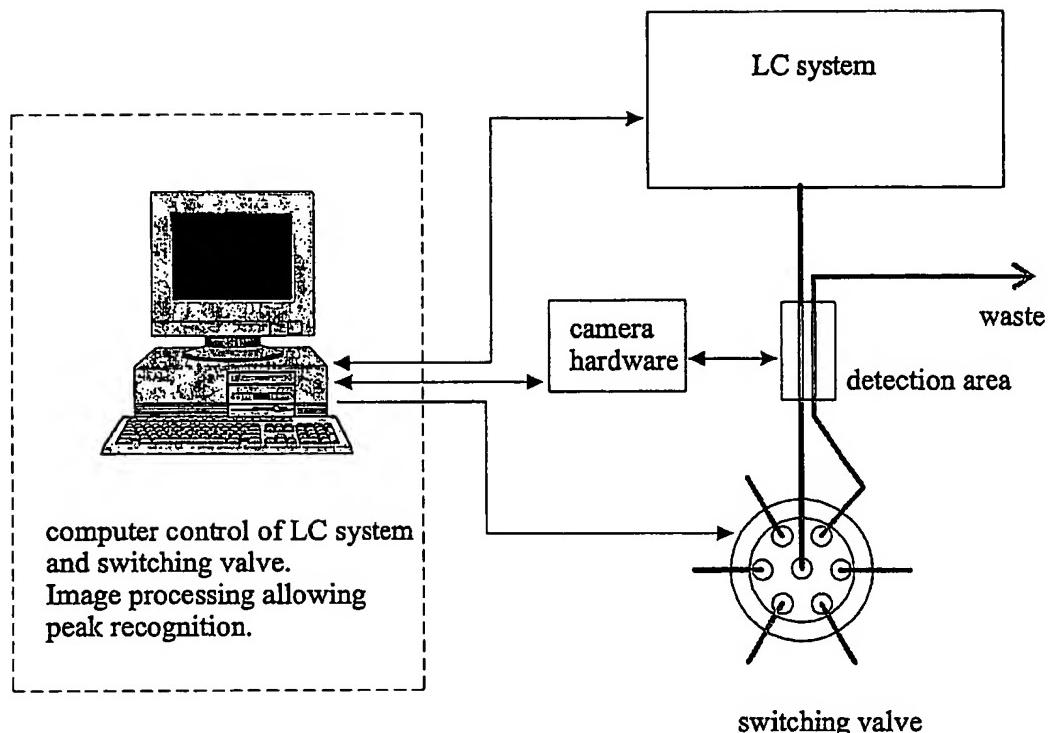


FIG. 14

REPLACEMENT SHEET

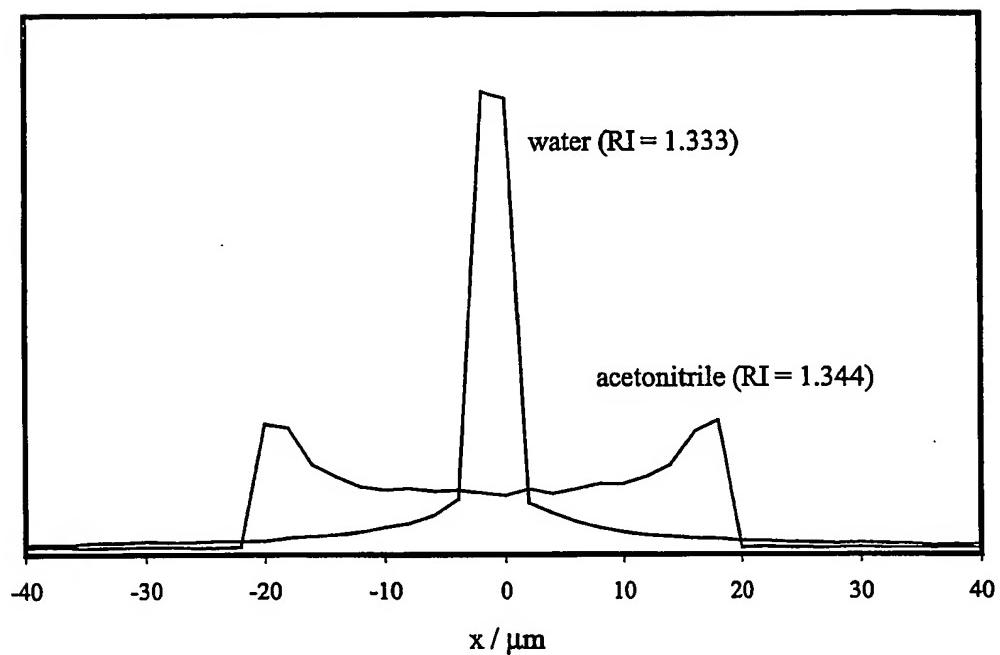


FIG. 15

REPLACEMENT SHEET

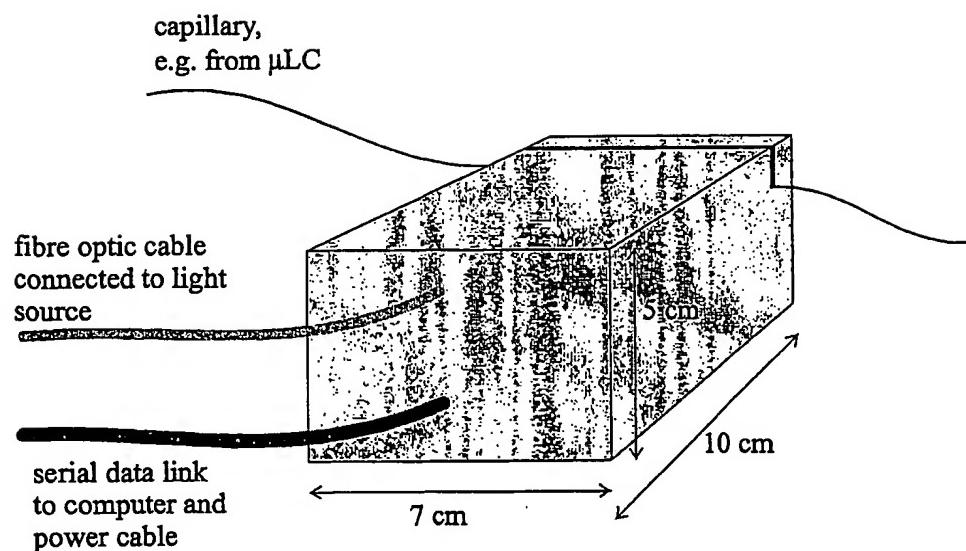


FIG. 16

REPLACEMENT SHEET

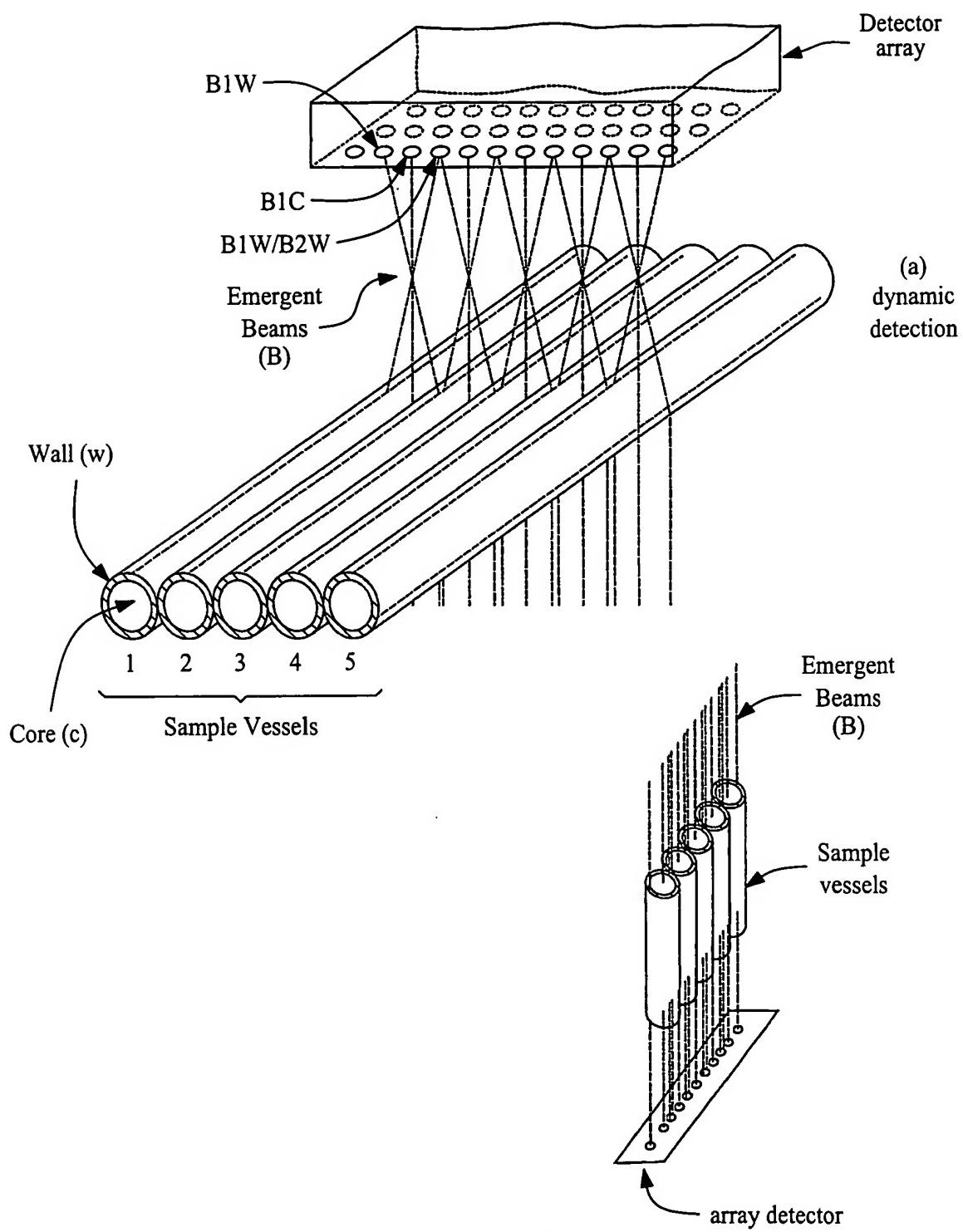


FIG. 17